CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.10/KB/CSR-05/051b/CEMENT/2016-17 Date: 30.05.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, Vidyaranyapura Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. Kariyallappa Betageri,** #24, 1st Floor, 1st Cross, 1st Main, Nandagokula Extn, Shampura, Bangalore – 45.
*NAME OF THE WORK	:	Construction of RCC Drain in Raja beedi and Medical Ramesh House Road in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
*REFERENCE	:	BBMP/EE/BTP/WO/43/2016-17 Dated: 27.05.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	28.05.2016
PERIOD OF TESTING	:	28.05.2016 to 30.05.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

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T-2377

Job No.: CTCE/BBMP/W.No.10/KB/CSR-05/051b/CEMENT/2016-17 Date: 30.05.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, Vidyaranyapura Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. Kariyallappa Betageri,** #24, 1st Floor, 1st Cross, 1st Main, Nandagokula Extn, Shampura, Bangalore – 45.
*NAME OF THE WORK	:	Construction of RCC Drain in Raja beedi and Medical Ramesh House Road in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
*REFERENCE	:	BBMP/EE/BTP/WO/43/2016-17 Dated: 27.05.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	28.05.2016
PERIOD OF TESTING	:	28.05.2016 to 30.05.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
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	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	480 Minutes	Not More than 600 Minutes
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T-2377

Job No.: CTCE/BBMP/W.No.10/KB/CSR-05/051/SAND-Gradation/2016-17 : 30.05.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Kariyallappa Betageri,**
#24, 1st Floor, 1st Cross, 1st Main, Nandagokula Extn, Shampura, Bangalore – 45.

*** Name of Work** : Construction of RCC Drain in Raja beedi and Medical Ramesh House Road in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : BBMP/EE/BTP/WO/43/2016-17 Dated: 27.05.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 28.05.2016

Date of Testing : 30.05.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.80	90-100	90-100	90-100	95-100
2.36	76.80	60-95	75-100	85-100	95-100
1.18	57.80	30-70	55-90	75-100	90-100
600 Micron	28.30	15-34	35-59	60-79	80-100
300 Micron	12.80	5-20	8-30	12-40	15-50
150 Micron	3.80	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.10/KB/CSR-05/051b/AGG/GR/2016-17 : 30.05.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. Kariyallappa Betageri,** #24, 1st Floor, 1st Cross, 1st Main, Nandagokula Extn, Shampura, Bangalore –
* Name of Work	: Construction of RCC Drain in Raja beedi and Medical Ramesh House Road in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: BBMP/EE/BTP/WO/43/2016-17 Dated: 27.05.2016
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 28.05.2016
Date of Testing	: 30.05.2016

Total Wt. of Aggregates in gms= **7000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.07	95-100	85-100
20	33.57	30-70	0-20
10	18.57	10-35	0-5
4.75	4.57	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.10/KB/STEEL/2016-17 30.05.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. Kariyallappa Betageri,** #24, 1st Floor, 1st Cross, 1st Main, Nandagokula Extn, Shampura, Bangalore – 45.
Name of the Work	:	Construction of RCC Drain in Raja beedi and Medical Ramesh House Road in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	BBMP/EE/BTP/WO/43/2016-17 Dated: 27.05.2016
Date of Test	:	30.05.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	514	557	13.25	O.K	O.K

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Job No.: CTCE/BBMP/W.No.10/KB/CSR-05/051b/CUBE/2016-17 28.06.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

* Agency : **Mr. Kariyallappa Betageri,** #24, 1st Floor, 1st Cross, 1st Main, Nandagokula Extn, Shampura, Bangalore – 45.

* Name of the work : Construction of RCC Drain in Raja beedi and Medical Ramesh House Road in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.

* Reference : BBMP/EE/BTP/WO/43/2016-17 Dated: 27.05.2016

* Sample ID : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 28.06.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.05.2016	28.06.2016	8.198	475.9	21.15
2	31.05.2016	28.06.2016	8.265	502.2	22.32
3	31.05.2016	28.06.2016	8.390	510.3	22.68

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Job No.: CTCE/BBMP/W.No.10/KB/CSR-05/051b/CUBE/2016-17 28.06.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. Kariyallappa Betageri,** #24, 1st Floor, 1st Cross, 1st Main, Nandagokula Extn, Shampura, Bangalore – 45.
* Name of the work	: Construction of RCC Drain in Raja beedi and Medical Ramesh House Road in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/43/2016-17 Dated: 27.05.2016
* Sample ID	: Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 28.06.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.05.2016	28.06.2016	8.122	485.5	21.58
2	31.05.2016	28.06.2016	8.285	506.3	22.50
3	31.05.2016	28.06.2016	8.310	512.2	22.76

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Job No.: CTCE/BBMP/W.No.10/KB/CSR-05/051b/CUBE/2016-17 28.06.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

* **Agency** : **Mr. Kariyallappa Betageri,** #24, 1st Floor, 1st Cross, 1st Main, Nandagokula Extn, Shampura, Bangalore – 45.

* **Name of the work** : Construction of RCC Drain in Raja beedi and Medical Ramesh House Road in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.

* **Reference** : BBMP/EE/BTP/WO/43/2016-17 Dated: 27.05.2016

* **Sample ID** : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{15}

Compressive Strength as on : 28th day

Sample Received on : 28.06.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.05.2016	28.06.2016	8.177	376.6	16.74
2	31.05.2016	28.06.2016	8.250	382.3	16.99
3	31.05.2016	28.06.2016	8.365	399.6	17.76

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